

#2

OIPE

RAW SEQUENCE LISTING

DATE: 01/15/2002

PATENT APPLICATION: US/10/025,380

TIME: 19:08:00

Input Set : A:\471c14.app

Output Set: N:\CRF3\01152002\J025380.raw

4 <110> APPLICANT: Xu, Jiangchun
5 Lodes, Michael J.
6 Secrist, Heather
7 Benson, Darin R.
8 Meagher, Madeleine Joy
9 Stolk, John A.
10 Wang, Tongtong
11 Jiang, Yuqiu
12 Smith, Carole L.
13 King, Gordon E.
14 Wang, Aijun
15 Clapper, Jonathan D.
16 Skeiky, Yasir A. W.
17 Fanger, Gary R.
18 Vedvick Thomas S.
19 Carter, Darrick
23 <120> TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
24 OF COLON CANCER AND METHODS FOR THEIR USE
28 <130> FILE REFERENCE: 210121.471C14
30 <140> CURRENT APPLICATION NUMBER: US/10/025,380
31 <141> CURRENT FILING DATE: 2001-12-19
33 <160> NUMBER OF SEQ ID NOS: 1129
35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 458
39 <212> TYPE: DNA
40 <213> ORGANISM: Homo sapiens
42 <220> FEATURE:
43 <221> NAME/KEY: misc_feature
44 <222> LOCATION: 1
45 <223> OTHER INFORMATION: n = A,T,C or G
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49 gacgatgtgg ttttcaggga ggcccagaga tttggagaag cggatgaagt tctccttttag 120
50 ttccgaagtc agctccttgg ttctcccgta gagggtgatc ttgaagtact cctgtttttg 180
51 agaaactttc ttgaagaaca ccatagcatg ctggtttag ttggtgctca ccaactcggac 240
52 gaggttaactc gttaatccag ggtaactcctt aatgttgccc agcgtgaact cgccgggctg 300
53 gcaacctgga acaaaagtcc tgatccagta gtcacacttc tttttcctaa acaggacgga 360
54 ggtgacattg tagctcttgt cttctttcag ctcatagatg gtggcataca tcttttgagg 420
55 gtctttgtct tctctgagaa ttgcattccc tgccagga 458
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58 <211> LENGTH: 423
59 <212> TYPE: DNA
60 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 2
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64 gtgttgtaca gtctataata ctccaacagt ctcccatctg tattcaatgg cgccacccaa 120

ENTERED

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65 tacagtcctt tgtttggatg ctggggagag taatccctac cccaagcacc atatatagataa 180
66 gaaaaccctc tccagttgag ctgaaccaca gacggtttgc tgatgttcac cacaccacca 240
67 tgaccacagc tccctggagt gggaggaggg tggacgacag ggggtgtttg atcttttagag 300
68 gcttcacact ctttcagctt ggtcttcaga gccacgattt ctcggcgaat ggcaaggaca 360
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73 <211> LENGTH: 538

74 <212> TYPE: DNA

75 <213> ORGANISM: Homo sapiens

77 <400> SEQUENCE: 3

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79 msctayraat gtgaaaycca gaacccagtg agtgccarsc gcagtgayyc agtcatcctg 120
80 aatgtcctct atggcccrga tgmccccacc atttcccctc taaacacatm ttaccgwyca 180
81 ggggaaaatc tgaacctctc ctgccacgca gcctctaacc cacctgcaca gtactcttgg 240
82 ttttcaatg ggactttcca gcaatccacm caagagctct ttatcccaa catcactgtg 300
83 aataatagyg gatcctatac gtgccaaagg cataactcag mcactggcct caataggacc 360
84 acagtacga cgatcacagt ctatgcaaga gccacccaaa cccttcatca ccagcaacaa 420
85 ctccaacccc gtggaggatg aggatgctgt agccttaacc tgtgaacctg agattcagaa 480
86 cacaacctac ctgtggtggg taaataatca gagcctcccg gtcagtccca ggctgcag 538

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89 <211> LENGTH: 309

90 <212> TYPE: DNA

91 <213> ORGANISM: Homo sapiens

93 <400> SEQUENCE: 4

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95 tgcgaacatt gaacggcgtg gattcaatag tgagcttggc agtgggtggc gggttccaga 120
96 aggttagaag tgaggctgtg agcaggagcc cctgccaggg gatvcacgca mtctgtgggg 180
97 aggggctgag rggdgwcycc atgggtctct ctgtctgctc tgctctctc tgtggagaag 240
98 agcttgagct ccaggaacgc tttgrtcavg gctgcctgtg acctytgctc tgbtctgcct 300
99 gcccgggcg 309

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102 <211> LENGTH: 412

103 <212> TYPE: DNA

104 <213> ORGANISM: Homo sapiens

106 <400> SEQUENCE: 5

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108 tatgtatgtg gaatccagaa ctkcagtgtg tgcaaaccgc agtgaccag tcaccctgga 120
109 tgtcctctat gggccagaca sccccatca tttccccccc agactcgtct tacctttcgg 180
110 gagcgaacct caacctctcc tgccaactcg cctctaacc atccccgcag tattcttggc 240
111 kgtatcaatg ggataccgca gcaacacaca caagttctct ttatcgcaa aatcacgcca 300
112 aataataacg ggacctatgc ctgttttgtc tctaacttgg ctactggccc gcaataattc 360
113 catagtcaag agcatcacag tcttctgcat ctggaacttc tctggtctt ct 412

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115 <210> SEQ ID NO: 6

116 <211> LENGTH: 332

117 <212> TYPE: DNA

118 <213> ORGANISM: Homo sapiens

120 <400> SEQUENCE: 6

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121 gtgcaagggc tttaaaaaa ctgtgccagt krotttctyca tgwsrwcrga tctgacttka 60

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122 ttsaygttkk atgagsysya saatmctgaw gctcmtyts sakgrwsttc kgsatmrgca 120
123 gtsrattosa catttgggrt akrtymtctc tsgaagysam tgtcakgcag tgrcayccwr 180
124 gkktcwgawt gcwgtgrgtt amcakcmwtr ywtagksgm ayatrattta ramrgtayak 240
125 cymtctcmct cytycmccay wtgcwcaass mkcacacctc ggccgcgacc acgctaagcc 300
126 cgaattccag cacactggcg gccgttacta gt 332
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 401
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 7
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135 agttgttagt tcgggaggtg cctccctggt agaccaccat gcgtcccttg aagatggaca 120
136 taagatgagg tggctccttg cccattggga cccgatctg gactggttca ccattgtact 180
137 tctgggtccag gatgacggct tgataagctg atgctgtaat ttcattcttg ctggcctggc 240
138 tgccctgcca aacgtagagc aggtaatgct gcttctcgcc gatgaaggta ggtgtaagag 300
139 cagcaggtaa gcaagttcgc ccccatagaa gtgggcctag ccacttggaa ttccagcaca 360
140 ctggcgcccc gttactagtg ggatcccgag ctcggtacca a 401
142 <210> SEQ ID NO: 8
143 <211> LENGTH: 1151
144 <212> TYPE: DNA
145 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 8
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149 tatctgccac atacaaagca tcattccagg tgctagttag gggaaaaaaa agttggagat 120
150 ttggtccctc gaggagctcc agatattaat ctacctaaat aagtccccag gtttcttcca 180
151 ggcatggaag aattagtggg gctacatgga tgaggactag tcattgggca atatttctg 240
152 tacaagaat ccctagacgc catactgagt tttaagttcc ttaattccta atttaaggct 300
153 tctagtgaag cctctcaca gtaggcttca ctaggccac agtgccccta gacctctgac 360
154 aatccccacc tagacagact ttattgcaaa atgcgcctga agaggcagat gattcccaag 420
155 agaactcacc aaatcaagac aaatgtccta gatctctagt gtggtagaac tatgcacct 480
156 aacattgctg caaaatgaac acacttttag acaccctgc agatatctaa gtaagtggag 540
157 aagactatit tttcaacaaa cattttctct ttcacctaa ctctaaaca gcttactggg 600
158 gcttctgcaa gacagaaaga tcataattca gaaggtaacc atcgttatag acataaagtt 660
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162 gatggtttat actgcttggt ataccaagt tttagcaact gaagtgtggt gtcattgagt 900
163 ttactaatca ccattgtacc agtgctggt tcagttgaat aaataacca caatccattc 960
164 tcatccacag caaagtcaat atcttgccaa gcaacattag catatgaaaa gcggttatta 1020
165 taggcagcat tagggagagt ttgagtcaca gcaatcggtg tgggtggtcag gttactctg 1080
166 gcaatattcc cgggtgttga catgttgacg tacatgttgt tgttgtaaac tgctgtacca 1140
167 ctaccttga c 1151
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170 <211> LENGTH: 604
171 <212> TYPE: DNA
172 <213> ORGANISM: Homo sapiens
174 <220> FEATURE:
175 <221> NAME/KEY: misc_feature
176 <222> LOCATION: 410, 427

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177 <223> OTHER INFORMATION: n = A,T,C or G

179 <400> SEQUENCE: 9

180 ctgtgcaagg gctttacaaa aactgtgcc a gacttccca tgaggctgga ttgcttgatt 60
 181 catgttttat gagccccaca atactgaagc tccttttcca gggacttggc ataggcagtc 120
 182 aattccacat ttgggatagg tcctctctgg aagtgaatgt caggcagtga catccaagtt 180
 183 tctgcatgca gtgggttaac agccatgttt agggggaaca tgatttaaaa agtacatctc 240
 184 tctccctcct cccccacatg cacaaggctc acatctcatt atgggtgkcg cccatgtcac 300
 185 attaaagtgt gatacttkgg ttttgaaaac attcaaacag tctctgtgga aatctggaga 360
 186 gaaattggcg gagagctgcc gtggtgcatt cctcctgtag tgcttcaagn taatgcttca 420
 187 ~~tcctttntta~~ ataacttttg atagacaggg gctagtcgca cagacctctg ggaagccctg 480
 188 gaaaacgctg atgcttggtt gaagatctca agcgcagagt ctgcaagttc atccctctct 540
 189 tcctgaggtc tgttggtggt aggctgcaga acattggtga tgacatggac cagccatttt 600
 190 gtgg 604

192 <210> SEQ ID NO: 10

193 <211> LENGTH: 473

194 <212> TYPE: DNA

195 <213> ORGANISM: Homo sapiens

197 <400> SEQUENCE: 10

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 199 acctgctgaa caaccacatc ttgaagtcag ctatgtgtgc tgaagccatc gttgcggggc 120
 200 tgtctgtgga gacctggag ggcacgacac ttgaggtggg ctgcagcggg gacatgctca 180
 201 ctatcaacgg gaaggcgatc atctccaata aagacatcct agccaccaac ggggtgatcc 240
 202 actacattga tgagctactc atcccagact cagccaagac actatttgaa ttggctgcag 300
 203 agtctgatgt gtccacagcc attgaccttt tcagacaagc cggcctcggc aatcatctct 360
 204 ctggaagtga gcggttgacc ctctggggt cccctgaatt ctgtattcaa agatggaacc 420
 205 cctccaattg atgcccatac aaggaaattg cttcggaacc acataattaa aga 473

207 <210> SEQ ID NO: 11

208 <211> LENGTH: 411

209 <212> TYPE: DNA

210 <213> ORGANISM: Homo sapiens

212 <220> FEATURE:

213 <221> NAME/KEY: misc_feature

214 <222> LOCATION: 251, 276, 406, 409

215 <223> OTHER INFORMATION: n = A,T,C or G

217 <400> SEQUENCE: 11

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 219 cctgatgcag ccacagcagc ccgaagggtc tcaaagggtg cctcgatctc aatgatctgc 120
 220 tggatgttgt tgggtatggt ggagatgacc ttatogatga ggtgcaccac cccgttggtt 180
 221 gcatggtggt eggcttlyar carccgggca cagttcacag ttacaatccc attaggatag 240
 222 ~~tggtggatct~~ nggatgttgg aattctggta catagnaggt gaggggtcat gccctgtttt 300
 223 cagctcatca gtcaggactc gcctgccac catatggtaa gcsgraggc atttgagcag 360
 224 ~~ctcaatgttt~~ gacattgctg gaccagggga gttccagcac ttctangag a 411

226 <210> SEQ ID NO: 12

227 <211> LENGTH: 560

228 <212> TYPE: DNA

229 <213> ORGANISM: Homo sapiens

231 <400> SEQUENCE: 12

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 233 caggcaagtt gctccagagc atattgcagg acaagcctgt aacgaatagt taaattcacg 120

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Input Set : A:\471c14.app

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234 gcatctggat tcctaactct tttccgaaat ggcaggtgtg agtgcctgta taaaatattc 180
235 tatgtttacc ttcaacttct tgttctggct atgtgggtatc ttgatcctag cattagcaat 240
236 atgggtacga gtaagcaatg actctcaagc aatttttggg tctgaagatg taggctctag 300
237 ctctacgtt gctgtggaca tattgattgc tgtaggtgcc atcatcatga ttctgggctt 360
238 cctgggatgc tgcggtgcta taaaagaaag tgcgtgcatg cttctgttgt ttttcatagg 420
239 cttgcttctg atcctgctcc tgcaggtggg cgacaggtat cctaggagct gttttcaaat 480
240 ctaagtctga tgcattgtg aatgaaactc tctatgaaaa cacaaagctt ttgagcgcca 540
241 caggggaaag tgaaaaacaa 560
243 <210> SEQ ID NO: 13
244 <211> LENGTH: 150
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 13
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250 ttgaacacat ttaagatttg agggatataa gggaaaatga tatgaatgtg tattt 120
251 caaaataaaa gtaactgttt acgttgggtga 150
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 403
255 <212> TYPE: DNA
256 <213> ORGANISM: Homo sapiens
258 <400> SEQUENCE: 14
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260 gctagctatg ggtagccagg tgttacaagg gtgctgctcc ttctccaacc cctacttgg 120
261 ttccctcacc ccaagcctca tgttcatacc agccagtggg ttcagcagaa cgcattgacac 180
262 cttatcacct cctccttgg gtgagctctg aacaccagct ttggccctc cacagtaagg 240
263 ctgctacatc aggggcaacc ctggtcttat ctttttctt ttttgccaaa aggaccagta 300
264 gcataggtga gccctgagca ctaaaaggag gggctcctga agctttccca ctatagtgtg 360
265 gagttctgtc cctgaggtgg gtacagcagc cttggttctc ctg 403
267 <210> SEQ ID NO: 15
268 <211> LENGTH: 688
269 <212> TYPE: DNA
270 <213> ORGANISM: Homo sapiens
272 <220> FEATURE:
273 <221> NAME/KEY: misc_feature
274 <222> LOCATION: 638, 639, 649, 660, 666, 669, 671, 673, 674, 679, 684
275 <223> OTHER INFORMATION: n = A,T,C or G
277 <400> SEQUENCE: 15
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280 caaaagcaca gaagcacatc acataacca gcaaggtttc caactactgc actgattaac 180
281 tagatactct caatagcttt totatagctc gtcctagaaa aaaaaattaa attttctatt 240
282 tottacaagt tccaggctta aacaaaggca aaaattacat gcaacaactg atacactcat 300
283 aagttgcaca tatgtccaa ggtctttatt agataacaat aaatgctagc actttgtcac 360
284 tgccatcaga ttttcttat agtcttagag tcatgtaaat aaaagttcca taatgaaatt 420
285 aaagaaaatt aatttttcta atcttagatc agttccatag aaaactatta atttttttaa 480
286 agtaggcagt agaagggggg tgggtggggg tggaattggt tagtaagtct ggttctaata 540
287 ttctgagctg cttttggaag gaagttatga ggtagaagat tctactgact tttagtaagg 600
W- 288 tggacaatga gagaaaagaa aaagcaggtg cctcatcnc agatccttnt ggtatttatn 660
W- 289 tgccangtnc nanntaatnc atanaaag 688

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/025,380

DATE: 01/15/2002

TIME: 19:08:01

Input Set : A:\471c14.app

Output Set: N:\CRF3\01152002\J025380.raw

L:30 M:270 C: Current Application Number differs, Wrong Format

L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
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L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
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L:642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:765 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

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Input Set : A:\471c14.app

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L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

L:846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

L:847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50